

Wisconsin Highway Research Program

Dr. Hussain Bahia, Technical Director
bahia@engr.wisc.edu
1415 Engineering Dr., Rm. 3350
Madison, WI 53706
608-265-4481

WisDOT Research & Library Unit

Ann Pahnke, Program Analyst
ann.pahnke@dot.state.wi.us
4802 Sheboygan Ave., Rm. 801
Madison, WI 53707
608-267-2294

Research Implementation & Project Closure

Project Information	
<i>(To be completed by WHRP staff when draft report is received)</i> Date completed: August 20, 2007	
Project Title: Determination of Shear Strength Values for Granular Backfill Materials Used by Wisconsin DOT	Project ID: 0092-05-08
Technical Oversight Committee: Geotechnics	TOC Chair: Bob Arndorfer
Project Start Date: September 1, 2004	WisDOT Project Manager: Bruce Pfister
Project End Date: August 30, 2007	Approved Contract Amount: \$99,901
Final Report Dated: August 2007	Actual Project Expenditures: \$99,901
Principal Investigator: Tuncer Edil and Craig H. Benson Organization: University of Wisconsin - Madison	Co-investigators (including research assistants) and Organizations:

Implementation / Further Research Recommendations		
<i>(Information provided by TOC and WisDOT project manager when final report is approved)</i> Date completed:		
1. What WisDOT policy or practice does this research project pertain to? Please identify the specific section(s) of the Facilities Development Manual (FDM), Construction and Materials Manual (CMM), Standard Specifications, other manual, or accepted practice to which this research pertains.		
2. Based on the results of this research, the following steps are recommended. (Please select either A, B or C, and provide detail in Items 3 to 7, below.) <input type="checkbox"/> A. No further activity is necessary. (Please skip to Item 7.) <input type="checkbox"/> B. Revisions to WisDOT policy or practice <u>are not appropriate at this time</u> . However, to gain further value from this research, we recommend follow-up research and/or validation activities as detailed in 3 through 6, below. <input type="checkbox"/> C. The Technical Oversight Committee recommends implementing changes to the following WisDOT policies or practices. (Please identify specific section(s) of specific manuals, where applicable):		
3. Describe the scope and objectives of follow-up research or implementation of specific changes to WisDOT procedures.		
4. Details of Follow-up Research or Implementation Activities:		
Task	Person responsible	Target completion date
1.		
2.		
3.		
4.		
5.		
6.		
5. Estimated cost, if any, for equipment, training, printing, etc.:		
6. Expected benefits and how they will be measured (dollar savings, time savings, etc.):		
7. Reasons for terminating activities related to this research project:		

Project Closure

(Information provided by principal investigator and WisDOT project manager when final report is approved)

Date completed: 8/21/2007

Timeline and budget

1. Was the project completed on time (i.e., per the original contract between WisDOT and the performing organization)?

- ☐ Yes
☒ No

1a. If not, what additional time was needed to complete the project?

1 year

What were the reasons?

- ☐ Data access ☒ Reporting/revision delay
☐ Testing delay ☐ Research subcontractor delay
☐ Construction delay ☐ Work plan modification
☐ Administrative delay

2. Was additional funding sought for this project?

- ☐ Yes
☒ No

2a. If yes, how much?

Was the funding approved? ☐ Yes ☐ No

For what purpose?

Partnerships and facilities

3. Did this research effort include partnerships with other universities, agencies, or other stakeholders?

- ☐ Yes
☒ No

3a. If yes, please list. Include the locations of any out-of-state institutions.

4. Indicate the location of facilities used:

- ☒ University
☐ Wisconsin DOT
☐ Other:

4a. Please describe the type of laboratory and testing facilities used.

Student involvement

5. Were graduate students employed for this study?

- ☒ Yes
☐ No

5a. If yes, how many? 1

Number male 1

Number female

6. Did any of the graduate students use this research project in a published thesis or article?

- ☒ Yes ☐ Not sure
☐ No ☐ N/A

6a. Citations of published theses or articles:

1 Thesis (MS)

3 Papers

7. Were undergraduate students employed for this study?

- ☐ Yes
☒ No

7a. If yes, how many? 1

Number male 1

Number female

8. If known, please list the graduate students' current occupations or affiliations (e.g., continuing graduate education, employed at a public agency or private firm, etc.) and completed degrees and awarding institutions.

Ph.D. Candidate at UW-Madison

9. If known, please list the undergraduate students' current occupations or affiliations (e.g., continuing graduate education, employed at a public agency or private firm, etc.) and, where applicable, completed graduate degrees and awarding institutions.

not known